Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
													Total kgs	5454.34					
													Total in kg	5454.34					
													Total tonne	5.45	TONNE				
IV	**Stair Case Reinforcement**																		
A	**First Floor**																		
a	**First Flight**																		
	From GF Roof Landing to Mid landing Slab	3.96	1.50																
	Main Bar				1	16	1.50	0.13			13	5.66	73.58				73.58		
	Distribution Bar				1	10			5.66	0.2	29	1.45	42.05		42.05				
	Top Extra Bar				1	16	1.50	0.13			13	2.40	31.20				31.20		
	Distribution Bar				1	10			1.00	0.2	6	1.45	8.70		8.70				
	Top Extra Bar @ Mid landing				1	16	1.50	0.13			13	3.30	42.90				42.90		
	Top Extra Bar @ Roof landing				1	16	1.50	0.13			13	2.40	31.20				31.20		
	Landing Slab	3.90	1.80																
	Top Main Bar				1	16	3.9	0.13			31	1.55	48.05				48.05		
	Distribution Bar				1	16	1.6	0.13			13	3.90	50.70				50.70		
	Bottom Main Bar				1	16	3.9	0.13			31	1.55	48.05				48.05		
	Distribution Bar				1	16	1.6	0.13			13	3.90	50.70				50.70		
	Landing Beam	3.90	0.20																
	Bottom main bar				1	25	3.9				3	3.90	11.70						11.70
	Top main bar				1	20	3.9				2	4.70	9.40					9.40	
	Stirrups				1	8			3.9	0.15	27	1.50	40.50	40.50					
b	**Second Flight**																		
	From Midlanding to 1st Floor Roof Landing	3.96	1.50																
	Main Bar				1	16	1.50	0.13			13	5.66	73.58				73.58		
	Distribution Bar				1	10			5.66	0.2	29	1.45	42.05		42.05				
	Top Extra Bar @ Mid landing				1	16	1.50	0.13			13	3.30	42.90				42.90		
	Top Extra Bar @ Roof landing				1	16	1.50	0.13			13	2.40	31.20				31.20		
														40.50	92.80		524.06	9.40	11.70
														0.395	0.617	0.889	1.580	2.469	3.858
														16.00	57.28		828.15	23.21	45.14
													Total kgs	969.78					
													Total in kg	969.78					
													Total tonne	0.97	TONNE				
	Second Floor Details																		

(25)

Contractor

PMC

Date.....

Assistant Engineer

12/2/21

Assistant Exicutive Engineer

12/2/2021

Executive Engineer

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
I	**Column Reinforcement**																		
A	**Columns @ Second Floor**																		
a	C1	0.75	0.30	3.65	2														
	Main Bars				2	25					18	3.65	131.40						131.40
	Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
					2	8			3.05	0.25	13	1.35	35.10	35.10					
b	C1'	0.75	0.30	3.65	2														
	Main Bars				2	25					18	3.65	131.40						131.40
	Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
					2	8			3.05	0.25	13	1.35	35.10	35.10					
c	C2	0.75	0.30	3.65	2														
	Main Bars				2	25					10	3.65	73.00						73.00
	Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
					2	8			3.05	0.25	13	1.35	35.10	35.10					
d	C2'	0.75	0.30	3.65	2														
	Main Bars				2	25					10	3.65	73.00						73.00
	Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
					2	8			3.05	0.25	13	1.35	35.10	35.10					
e	C3	0.75	0.30	3.65	4														
	Main Bars				4	25					4	3.65	58.40						58.40
					4	20					4	3.65	58.40					58.40	
	Stirrups / Lateral ties				4	8			3.05	0.25	13	2.00	104.00	104.00					
					4	8			3.05	0.25	13	1.35	70.20	70.20					
f	C4	0.75	0.30	3.65	4														
	Main Bars				4	20					4	3.65	58.40					58.40	
					4	16					4	3.65	58.40				58.40		
	Stirrups / Lateral ties				4	8			3.05	0.25	13	2.00	104.00	104.00					
					4	8			3.05	0.25	13	1.35	70.20	70.20					
														696.80			58.40	116.80	467.20
														0.395	0.617	0.889	1.580	2.469	3.858
														275.28			92.29	288.40	1802.47
													Total kgs	2458.43					
													Total in kg	2458.43					
													Total tonne	**2.46**	TONNE				
II	**Roof Beam Reinforcement**																		
A	**Second Floor**																		
	B1 Along Grid A & D'	18.00	0.30	0.60	2														
	Bottom Main Bar				2	25					4	17.95	143.60						143.60

Contractor

PMC Date.....

Assistant Engineer 24/2/21

Assistant Exicutive Engineer

Executive Engineer

94

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Top Main Bar				2	25					3	18.75	112.50						112.50
	Bottom Extra Bar bw Grid 1&2				2	25					1	4.43	8.85						8.85
	Bottom Extra Bar bw Grid 2&3				2	25					1	4.65	9.30						9.30
	Bottom Extra Bar bw Grid 3&4				2	25					1	3.30	6.60						6.60
	Top Extra Bar @ Grid 2				2	25					4	3.90	31.20						31.20
	Top Extra Bar @ Grid 3				2	25					3	3.50	21.00						21.00
	Stirrups																		
	Between Grid 1 & 3				2	10			11.73	0.15	79	1.70	268.60		268.60				
	Between Grid 3 & 4				2	10			3.95	0.3	14	1.70	47.60		47.60				
	B2 Along Grid B & C	18.00	0.30	0.60	2														
	Bottom Main Bar				2	25					4	17.95	143.60						143.60
	Top Main Bar				2	25					3	18.75	112.50						112.50
	Bottom Extra Bar bw Grid 1&2				2	25					2	4.43	17.70						17.70
	Bottom Extra Bar bw Grid 2&3				2	25					2	4.65	18.60						18.60
	Bottom Extra Bar bw Grid 3&4				2	25					2	3.30	13.20						13.20
	Top Extra Bar @ Grid 2				2	25					4	3.90	31.20						31.20
	Top Extra Bar @ Grid 3				2	25					3	3.50	21.00						21.00
	Stirrups																		
	Between Grid 1 & 4				2	10			15.98	0.1	161	1.70	547.40		547.40				
	B3 Along Grid 1	17.00	0.30	0.60	1														
	Bottom Main Bar				1	25					3	16.95	50.85						50.85
	Top Main Bar				1	25					3	17.75	53.25						53.25
	Bottom Extra Bar bw Grid A&B				1	25					2	4.38	8.75						8.75
	Bottom Extra Bar bw Grid C&D				1	25					2	4.38	8.75						8.75
	Top Extra Bar				1	25					4	7.60	30.40						30.40
	Stirrups																		
	Between Grid A & D				1	10			14.00	0.15	94	1.70	159.80		159.80				
	B4 Along Grid 2	6.70	0.30	0.60	2														
	Bottom Main Bar				2	25					5	6.65	66.50						66.50
	Top Main Bar				2	25					4	7.45	59.60						59.60
	Bottom Extra Bar				2	25					3	4.50	27.00						27.00
	Stirrups																		

Contractor

PMC

Assistant Engineer

24/2/21

Assistant Exicutive Engineer

24/2/2021

Executive Engineer

47

Sl. No		Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
			L	B	H			L	Spacing	L	Spacing									
		Between Grid A- B & C-D'				2	10			11.45	0.15	77	1.70	261.80		261.80				
		B4 Along Grid 3	6.70	0.30	0.60	2														
		Bottom Main Bar				2	25					5	6.65	66.50						66.50
		Top Main Bar				2	25					4	7.45	59.60						59.60
		Bottom Extra Bar				2	25					3	4.50	27.00						27.00
		Stirrups																		
		Between Grid A- B & C-D'				2	10			11.45	0.15	77	1.70	261.80		261.80				
		B5 Along Grid 3	4.20	0.30	0.60	1														
		Bottom Main Bar				1	25					3	4.15	12.45						12.45
		Top Main Bar				1	20					2	4.95	9.90					9.90	
		Stirrups																		
		Between Grid B & C				1	10			3.60	0.15	25	1.70	42.50		42.50				
		B6 Along Grid 4	6.70	0.30	0.60	2														
		Bottom Main Bar				2	25					5	6.65	66.50						66.50
		Top Main Bar				2	20					2	7.45	29.80					29.80	
		Stirrups																		
		Between Grid A- B & C-D'				2	8			11.45	0.15	77	1.70	261.80	261.80					
															261.80	1589.50			39.70	1228.00
															0.395	0.617	0.889	1.580	2.469	3.858
															103.43	981.17			98.02	4737.65
														Total kgs	5920.28					
														Total in kg	5920.28					
														Total tonne	**5.92**	**TONNE**				
III		**Roof Slab Reinforcement**																		
	A	**Second Floor**																		
	a	Between Grid 1-4 & A-B	18.00	6.55																
		Main Bar - a1				1	12	17.95	0.13			139	6.50	903.50			903.50			
		Longitudinal Bar - a1				1	12			6.50	0.13	51	17.95	915.45			915.45			
		Top Extra Above Beam B4 - a3				2	16	6.4	0.26			26	3.90	202.80				202.80		
	b	Between Grid 1-3 & B-C	12.85	3.90																
		Main Bar - a1				1	12	12.80	0.13			99	3.85	381.15			381.15			
		deduct at Cutout	9.09	0.60		-1	12	9.09	0.13			71	0.60	-42.60			-42.60			
		Longitudinal Bar - a5				1	10			3.85	0.25	16	12.80	204.80		204.80				

Contractor

PMC Date

Assistant Engineer
24/2/21

Assistant Exicutive Engineer
24/2/2021

Executive Engineer

(23)

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Top Extra @ B2 along Grid B - a3	1.70	3.90		1	16	1.70	0.26			8	3.05	24.40				24.40		
	Top Extra @ B2 along Grid C - a1	1.70	3.90		1	12	1.70	0.13			14	3.05	42.70			42.70			
	Top Extra near Cut out @B2 Along grid B - a2	9.09	3.90		1	16	9.09	0.1			92	3.65	335.80				335.80		
	Top Extra near Cut out @B2 Along grid C - a2	9.09	3.90		1	16	9.09	0.1			92	3.75	345.00				345.00		
c	Between Grid 1-4 & C-D'	18.00	6.55																
	Main Bar - a1				1	12	17.95	0.13			139	6.50	903.50			903.50			
	Longitudinal Bar - a1				1	12			6.50	0.13	51	17.95	915.45			915.45			
	Top Extra Above Beam B4 - a3				2	16	6.4	0.26			26	3.90	202.80				202.80		
															204.80	4019.15	1110.80		
														0.395	0.617	0.889	1.580	2.469	3.858
															126.42	3572.58	1755.34		
												Total kgs		5454.34					
												Total in kg		5454.34					
												Total tonne		5.45	TONNE				
IV	**Stair Case Reinforcement**																		
A	**Second Floor**																		
a	**First Flight**																		
	From FF Roof Landing to Mid landing Slab	3.96	1.50																
	Main Bar				1	16	1.50	0.13			13	5.66	73.58				73.58		
	Distribution Bar				1	10			5.66	0.2	29	1.45	42.05		42.05				
	Top Extra Bar				1	16	1.50	0.13			13	2.40	31.20				31.20		
	Distribution Bar				1	10			1.00	0.2	6	1.45	8.70		8.70				
	Top Extra Bar @ Mid landing				1	16	1.50	0.13			13	3.30	42.90				42.90		
	Top Extra Bar @ Roof landing				1	16	1.50	0.13			13	2.40	31.20				31.20		
	Landing Slab	3.90	1.80																
	Top Main Bar				1	16	3.9	0.13			31	1.55	48.05				48.05		
	Distribution Bar				1	16	1.6	0.13			13	3.90	50.70				50.70		
	Bottom Main Bar				1	16	3.9	0.13			31	1.55	48.05				48.05		
	Distribution Bar				1	16	1.6	0.13			13	3.90	50.70				50.70		
	Landing Beam	3.90	0.20																
	Bottom main bar				1	25	3.9				3	3.90	11.70						11.70
	Top main bar				1	20	3.9				2	4.70	9.40					9.40	

Contractor

PMC
Date.....

Assistant Engineer
9/3/21

Assistant Exicutive Engineer
9/3/2021

Executive Engineer

47

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Stirrups				1	8			3.9	0.15	27	1.50	40.50	40.50					
b	**Second Flight**																		
	From Midlanding to 1st Floor Roof Landing	3.96	1.50																
	Main Bar				1	16	1.50	0.13			13	5.66	73.58				73.58		
	Distribution Bar				1	10			5.66	0.2	29	1.45	42.05		42.05				
	Top Extra Bar @ Mid landing				1	16	1.50	0.13			13	3.30	42.90				42.90		
	Top Extra Bar @ Roof landing				1	16	1.50	0.13			13	2.40	31.20				31.20		
														40.50	92.80		524.06	9.40	11.70
														0.395	0.617	0.889	1.580	2.469	3.858
														16.00	57.28		828.15	23.21	45.14
													Total kgs	969.78					
													Total in kg	969.78					
													Total tonne	**0.97**	TONNE				

Contractor

S.R. INFRATECH BENGALURU

PMC

Assistant Engineer

9/3/21

Assistant Exicutive Engineer

9/3/2021

Executive Engineer

59